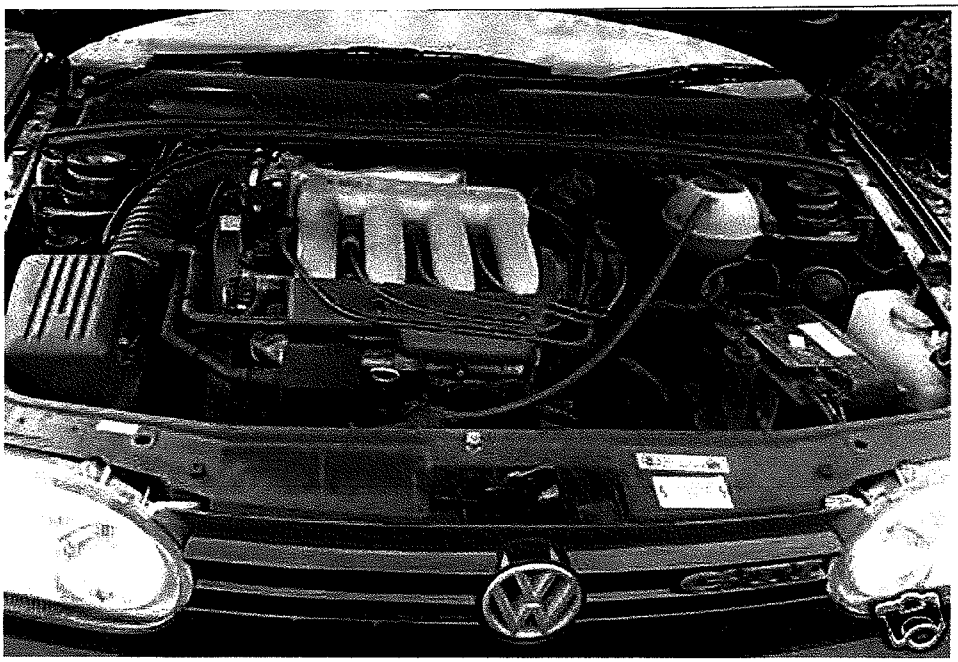

Repair Manual

2.0 l 16 V engine

Letters: ABF

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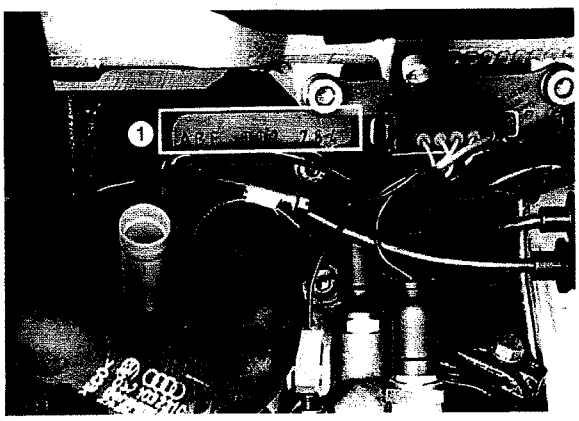
List of tools: 2.0 I 16 V engine 1

List of equipment: 2.0 I 16 V engine 1

IDENTIFICATION LETTER AND ENGINE NUMBER



01A024

01A025

(1) The identification letters and the engine serial number are engraved on the cylinder block above the oil filter.
(2) There is also a sticker with the identification letters and serial number on the upper timing belt cover.

ENGINE DATA

ENGINE CODE LETTERS		ABF
Cycle		OTTO/ATMOSPHERIC 4 stroke
Number of cylinders		4
Number of valves		16
Cylinder bore	mm	82.5
Stroke	mm	92.8
Swept volume	l	2.0
	cm^3	1984
Compression ratio		10.5 : 1
Maximum horsepower	kW	110
	rpm	6000
Maximum torque	Nm	180
	rpm	4500

ENGINE DATA

ENGINE CODE LETTERS	ABF
RON minimum	95 N.O. Super lead-free
Injection	Digifant
Ignition	Digifant
Ignition order	1-3-4-2
Idling speed (not adjustable) rpm	820 ± 50
CO contents (not adjustable) Measured before the catalytic converter: Measured on final length of exhaust:	 0.7 ± 0.4% < 0.5 %
Compression ratio New (bars) Maximum allowable wear	10 ÷ 13 7.5
Catalyst	Yes
Lambda adjustment	Yes
Pinking adjustment	Yes
Selfdiagnose	Yes
Distribution timing, at 1 mm valve stroke Intake opens Intake closes Exhaust opens Exhaust closes	 1° before TDC 38° after BDC 39° before BDC 1° after TDC

Tightening torque: 2.0 I 16 V engine

PART	TIGHTENING TORQUE Nm
ENGINE UNIT	
Gearbox to engine fixing bolts M10	60
Gearbox to engine fixing bolts M12	80
Bolts fixing brackets to engine block or gearbox	45
Bolts fixing brackets to bodywork	50
Articulated half shafts to gearbox flange fixing bolts	45
Exhaust pipe to exhaust manifold attachment M10	40
CRANKSHAFT ASSEMBLY	
Timing belt cover attachment	10
Tension roller fixing nut	45
Intermediate shaft pinion fixing bolt	65
Crankshaft pinion fixing bolt	90 + 90°
Cylinder head cover fixing bolt	10
Bracket fixing bolt	45
Pinking sensor fixing bolt	20
Tension device fixing bolt	10
Air conditioning compressor support fixing nuts	30
Cooling liquid pump fixing bolt	20 + 90°
Bolt fixing engine speed transmitter	10
Oil sump fixing bolt	25
Engine flywheel fixing bolt	60 + 90°
Crankshaft oil seal holder fixing bolt, flywheel side	10
Intermediate shaft oil seal support fixing bolt	25
Crankshaft oil seal holder fixing bolt, distribution side M6	10
Crankshaft oil seal holder fixing bolt, distribution side M8	25
Crankshaft bearing cap fixing bolt	65
Bolt fixing toothed crown	10 + 90°
Connecting rod cap fixing nut	30 + 90°
Oil injector pressure valve	27

PART	TIGHTENING TORQUE Nm
CYLINDER HEAD	
Intake manifold fixing bolt	20
Manifold bracket fixing bolt	20
Cylinder head cover fixing bolt	10
Tension roller fixing nut	45
Cylinder head fixing bolt (see tightening instructions)	60 + 180°
Camshaft drive pinion fixing bolt	65
Camshaft bearing cap fixing nut	15
LUBRICATION	
Oil temperature transmitter	10
Oil pressure switch	25
Non-return valve	5
Oil filter support fixing bolt	25
Oil pump fixing bolt	20
Oil pump cover fixing bolt	10
Oil sump fixing bolt	20
Oil cooler fixing nut	25
Oil drain plug	40
Oil injector pressure valve	27
COOLING	
Fan control thermoswitch	35
Cooling liquid pump fixing bolt	20 + 90°
Cooling liquid distributor fixing bolt	10
Coolant liquid temperature gauge transmitter	10
Cooling liquid pump pulley fixing bolt	20
Cooling liquid pump half housing fixing bolt	10
Thermostat cover fixing bolt	10
Air conditioning compressor support fixing nuts	30

Tightening torque: 2.0 I 16 V engine

PART	TIGHTENING TORQUE Nm
FUEL FEED	
Fuel level transmitter/pump fixing nut	75
Fuel tank fixing bolt	25
Bolt fixing fuel filter bracket	3
Filling mouth fixing bolt	4
Electromagnetic valve fixig nut for activated carbon tank	10
FUEL PREPARATION	
Spark plugs	30
Inlet manifold fixing bolts (upper and lower parts)	20
Lambda probe	50
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Idling switch and throttle valve potentiometer fixing bolts	10
Fuel distributor fixing bolts	10
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IGNITION SYSTEM	
Pinking sensor fixing bolt	20
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